

Attorney Docket No: ERI-141XX

Inventor(s): Eliezer Peli

Application No. 10/583,682

TC Art Unit: 2873/Examiner: Darryl J. Collins

OA Date: 11/14/07/Resp. Date: 02/07/08

AMENDMENT TO THE CLAIMS

1. (Currently Amended) A spectacle system for providing visual field shifting for a person wearing a spectacle frame having a carrier lens, the eyes of the person defining a horizontal visual meridian, the spectacle system comprising:

a carrier lens having a central viewing area including said horizontal visual meridian and peripheral viewing areas disposed above and below said central viewing area, said peripheral viewing areas not intersecting said horizontal visual meridian nor said central viewing area; and

an image-shifting device disposed in one or both of said peripheral viewing areas of said carrier lens, said image-shifting device including a plurality of image-shifting elements, each of said plurality of image-shifting elements being oriented such that an optical axis of each of the plurality of image-shifting elements disposed in a specific said peripheral viewing area forms an angle between 10° and 60° relative to the horizontal visual meridian.

2. (Original) The spectacle system of claim 1 wherein said image-shifting device is an upper image-shifting device disposed in the peripheral viewing area above the central viewing area, and wherein said upper image-shifting device provides a lateral and upward shift of a perceived image.

3. (Original) The spectacle system of claim 1 wherein said image-shifting device is a lower image-shifting device disposed in the peripheral viewing area below the central viewing area, and

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wherein the lower image-shifting device provides a lateral and downward shift of a perceived image.

4. (Original) The spectacle system of claim 1 wherein said image-shifting device includes upper and lower image-shifting devices disposed in the peripheral viewing areas above and below the central viewing area, respectively, and wherein the upper image-shifting device provides a lateral and upward shift in perceived image and the lower image-shifting device provides a lateral and downward shift in perceived image.

5. (Original) The spectacle system of claim 1 wherein said plurality of image-shifting elements are prisms and wherein said plurality of image-shifting prisms are arranged in a side by side juxtaposed arrangement on said carrier lens, forming a Fresnel-like image-shifting device.

6. (Original) The spectacle system of claim 1 wherein said plurality of image-shifting elements are image-shifting mirrors pairs and wherein said plurality of image-shifting mirrors pairs are arranged in a side by side juxtaposed arrangement on said carrier lens, forming a Fresnel-like image-shifting device.

7. (Original) The spectacle system of claim 6 wherein each of the image-shifting mirrors pairs includes a first reflecting surface and a second reflecting surface, each said reflecting surface facing toward the other and oriented to the other so as cause a predetermined angle of deviation of light.

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8. (Original) The spectacle system of claim 1, wherein said spectacle frame is a binocular frame.

9. (Original) The spectacle system of claim 1, wherein said spectacle frame is a monocular frame.

10. (Currently Amended) A spectacle system for providing visual field shifting for a person wearing a spectacle frame having first and second carrier lenses, the eyes of the person defining a horizontal visual meridian, the spectacle system comprising:

a first and a second carrier lens, each said lens having a central viewing area including said horizontal visual meridian and peripheral viewing areas disposed above and below said central viewing area, said peripheral viewing areas not intersecting said horizontal visual meridian nor said central viewing area; and

a first image-shifting device disposed in one or both of said peripheral viewing areas of said first carrier lens and a second image-shifting device disposed in one or both of said peripheral viewing areas of said second carrier lens, said first and second image-shifting devices including first and second pluralities of image-shifting elements, respectively, each of said plurality of image-shifting elements being oriented such that an optical axis of each of the plurality of image-shifting elements disposed in a specific said peripheral viewing area forms an angle between 10° and 60° relative to the horizontal meridian.

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11. (Original) The spectacle system of claim 10 wherein said first image-shifting device includes first upper and first lower image-shifting devices disposed in the peripheral viewing area above and below the central viewing area of the first and/or second carrier lens respectively, and wherein said first upper image-shifting device provides a lateral and upward shift of a perceived image and said first lower image-shifting device provides a lateral and downward shift of a perceived image.

12. (Original) The spectacle system of claim 11 wherein said second image-shifting device includes second upper and second lower image-shifting devices disposed in the peripheral viewing area above and below the central viewing area of the second carrier lens respectively, and wherein said second upper image-shifting device provides a lateral and upward shift in perceived image and said second lower image-shifting device provides a lateral and downward shift in perceived image.

13. (Original) The spectacle system of claim 10 wherein said first and second pluralities of image-shifting elements are prisms and wherein said first and second pluralities of image-shifting prisms are arranged in a side by side juxtaposed arrangement on said first and/or second carrier lens respectively, forming a Fresnel-like image-shifting device.

14. (Original) The spectacle system of claim 10 wherein said first and second pluralities of image-shifting elements are image-shifting mirrors pairs and wherein said first and second plurality

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of image-shifting mirrors pairs are arranged in a side by side juxtaposed arrangement on said first and/or second carrier lens respectively.

15. (Original) The spectacle system of claim 14 wherein each of the image-shifting mirrors pairs includes a first reflecting surface and a second reflecting surface, each said reflecting surface facing toward the other and oriented to the other so as to cause a predetermined angle of deviation of light.

16. (Original) A spectacle system for providing visual field shifting for a person wearing a spectacle frame having a carrier lens, the eyes of the person defining a horizontal visual meridian, the spectacle system comprising:

said carrier lens having a central viewing area including said horizontal visual meridian and peripheral viewing areas disposed above and below said central viewing area; an image-shifting mirror disposed in one or both of said peripheral viewing areas of said carrier lens, said image-shifting mirror including a plurality of image-shifting mirror elements, each of said plurality of image-shifting mirror elements oriented such that a longitudinal axis of each of the plurality of image-shifting elements is substantially orthogonal to the horizontal visual meridian.